DRAFT

NPIC/P&DS/D/6l June 1966

MEMORANDUM FOR THE RECORD		
SUBJECT: Visit to	Regarding Contract	25 X 1
1. On 18 May the undersigned visited		25 X 1
for the purpose of observi	ng progress on the	25 X 1
Contract and to discuss	plans for a follow-on	25X1
effort for FY-1967.		
2. Several laboratory experiments were obse	erved: one concerning	
a new film formulation that is blue in appearance	e, seems to band well	
to a mylar base, and exhibits fairly good density	y characteristics.	
The obtained sample has a D-maximum of about 1.29	5 with a reasonably	
low fog density. Observation of a density step w	wedge through a blue	
filter (for color equilization) beside the sample	e film appears to	
reproduce about 8 steps of the 21 step density we	edge. is	25X1
preparing some density step wedge exposures of the	nis material to be	
included with a proposal for follow-on FY-1967 ef	ffort. Another of the	
characteristics of this material demonstrated in	the laboratory was .	
resolution. A resolution target was exposed and	projection printed on	
paper through a microscope. The projected print	showed a resolution	
capability in excess of 200 lines/mm; but because	e of the reproduction	
and reading methods involved in the experiment, t	he ultimate resolution	
could not be determined at this time. NPIC will	receive samples of	
exposed resolution targets at a later date. One	unsolved problem of	

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this material is a method for retaining the image. Heat treatment will

allow retention for a few days under normal room lighting or for viewing with low light projectors, but intense light will cause it to bleach out. Further experiments are to be conducted in an effort to solve this *k**x** problem. A stripping overcoat on the film to remove the chemical responsible for the bleaching may be required. The material can be exposed in a few seconds using a standard 300 watt projection lamp. The material shows promise and should be further investigated.

3. The parameters concerning a proposal for an FY-1967 effort were discussed. In general the criteria will be as previously reported in the NPIC memorandum of 8 February 1966, regarding a conference held to determine interim objectives, that is, a D-maximum of 2.0, a D-minimum of 0.10; a density range of 11 steps of the standard 21 step density wedge; a resolution of 200 lines/mm; and exposure time not to exceed 30 seconds. In has been found that exposure (bleaching) is effected by temperature. This phenomenon may be useful in controlling gamma or contrast. A proposal for continuation of this effort in FY-1967 should be here about 15 June 1966.

25**X**1

clc